

# **Abstract**

There is provided a method for maintaining synchronization between a transport stream and a program stream decoder during a conversion from the transport stream to a program stream. A system reference clock (SCR) is  
5 calculated from the transport stream (410). A multiplexer-rate is calculated for the program stream (480). The program stream is formed by multiplexing packetized elementary stream (PES) packets parsed from the transport stream using the calculated multiplexer-rate (480).